CLAIMS

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1. Winding Core for primary and secondary parts of a linear motors, comprising a yoke (3; 3') with protruding teeth (4; 4') that define slots (5) for receiving at least one winding, characterized in that each of the teeth (4; 4') has a yoke-proximal portion (7; 7') and a yoke-distal portion (6; 6'), wherein the yoke-proximal portion (7; 7') has a greater lateral dimension than the yoke-distal portion (6; 6') in the direction perpendicular to the movement direction of the linear motor.

2. Winding core according to claim 1, characterized in that the dimension of the yoke-proximal portion (7; 7') on one side is greater by about 5% than the dimension of the yoke-distal portion (6; 6').

3. Winding core according to claim 2, characterized in that the dimension of the yoke-proximal portion (7; 7') on each side is greater by up to 5% than the dimension of the yoke-distal portion (6; 6').

4. Winding core according to claim 1, 2 or 3, characterized in that the teeth (4; 4') are arranged in symmetry with respect to a direction perpendicular to the movement direction of the linear motor.

5. Winding core according to claim 1, 2, 3 or 4, characterized in that the teeth (4, 4') are formed with at least one shoulder (8; 10) to realize the widening of the dimension.

6. Winding core according to one of the claims 1 to 5, characterized by a slanted transition (10) between the yoke-proximal and yoke-distal portions.

7. Winding core according to one of the claims 1 to 6, characterized in that the beginning of the yoke-distal portion (6; 6') from the yoke (3; 3') is not farther away than half a tooth length.

8. Winding core according to claim 1, 2, 3 or 4, characterized in that the yoke-distal portion (6; 6') is connected to the yoke-proximal portion (7; 7') by a continuously widening dimension.

9. Winding core according to one of the preceding claims, characterized in that the yoke (3) has the same lateral dimensions as the yoke-proximal portion at least in the area of the teeth (4).

10. Winding core according to claim 9, characterized in that the yoke (3) has the same lateral dimensions as the yoke-proximal portion over the entire length.

11. Linear motor, comprising a primary part and a secondary part (2), characterized in that the primary part and/or the secondary part has a winding core according to one of the claims 1 to 10.

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